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Environmental Affairs

Tel: (012) 310-3920 Fax: (012) 310-3753 Email: knioamipe@deat.gov.za

LICENCE NUMBER: 12/9/11/L207/5
CLASS: G: S: B
WASTE DISPOSAL FACILITY: MARULENG WASTE DISPOSAL SITE
LOCATION: PORTION OF FARM 194KT HOEDSPRUIT, LIMPOPO
PROVINCE
LICENCE HOLDER: MARULENG MUNICIPALITY
ADDRESS: P.O. BOX 627, HOEDSPRUIT, 1380

LICENCE IN TERMS OF SECTION 20(b) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008(ACT NO. 59 OF 2008)

I, Joanne Yawitch, in my capacity as Deputy Director - General of the National Department of Environmental Affairs (hereinafter referred to as "the Department"), in terms of section 20(b) of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), hereby recommend the authorisation of the above-mentioned Licence Holder to dispose of general waste at the above-mentioned waste disposal facility, subject to the conditions specified herein.



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POLOKWANE

0700

In this licence, "Chief Director: RPW" means the Chief Director: Resource Protection and Waste of the Department of Water Affairs (DWA) who may be contacted at the address below:

Chief Director: Resource Protection and Waste
Department of Water Affairs
Private Bag X 313
PRETORIA
0001

1. SITE DETAILS

1.1 LOCATION

1.1.1 This Licence authorises the disposal of general waste on Portion of the farm 194 KT Hoedspruit within the Magisterial District of Mopani in the Limpopo Province (hereinafter referred to as "the Site") according to Maruleng Waste Disposal Site Permit Application Report No. MDM/8/2/3/67/B prepared by Mfumo Development, dated August 2008 (herein referred to as "the Report") submitted by the licence holder.

1.1.2 The location of the Site must be according to the co-ordinates indicated on the application form, submitted by the Licence Holder which is defined as follows:

Number of corner	Latitude	Longitude
A	24° 16'00"	30° 36'00"
B	24° 18'00"	30° 36'00"
C	24° 16'00"	30° 38' 00"
D	24° 18'00"	30° 38' 00"

1.2 DOCUMENTS CONSIDERED

1.2.1 Maruleng: Solid Waste Permit Application Report No. MDM/8/2/3/67/B prepared by Mfumo Development, dated 11 May & September 2009 respectively herein after referred to as the reports;

1.2.2.1 Permit Application, dated 12 December 2008; and



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- 1.3.1 The Licence Holder must ensure effective access control on the Site by having it fenced to a minimum height of 1.8 metres, with gates of the same height at all entrances, to reasonably prevent unauthorised entry and curtail the spreading of wind-blown waste.
- 1.3.2 The Licence Holder must ensure that all entrance gates are manned during the hours of operation and locked outside the hours of operation.
- 1.3.3 The Licence Holder must prevent the acceptance of waste not authorised at the site as per condition 3.1 below.
- 1.3.4 Weatherproof, durable and legible notices in at least three official languages applicable in the area, shall be displayed at each entrance to the site. These notices shall prohibit unauthorised entry and state the hours of operation, the name, address and telephone number of the Licence Holder and the person responsible for the operation of the site.

2. MANAGEMENT

2.1 GENERAL MANAGEMENT

2.1.1 The activities must be managed and operated:

- (a) in accordance with an updated environmental management system that inter alia identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-compliance and those drawn to the attention of the Licence Holder as a result of complaints;
- (b) in accordance with conditions of this licence and with any other written instruction by the HOD; and
- (c) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

2.1.2 Any persons having duties that are or may be affected by the matters set out in this licence must have convenient access to a copy of it, kept at or near the place where those duties are carried out. A copy of this licence may be published on any website deemed fit by the Department.



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- (b) Landfill Site Fire
- (c) Slope Failure
- (d) Natural disaster such as floods
- (e) Industrial action
- (f) Contact details of police, ambulance and any emergency centre closer to the site.

3 PERMISSIBLE WASTE

- 3.1 Any portion of the site which has been constructed or developed according to condition 4 of this licence, may be used for the disposal of all waste types which are classified as general waste according to the latest edition of the 1998 2nd Edition of the "Minimum Requirements" series of documents (DWAF Minimum Requirements). See Annexure II for waste prohibited unless it forms less than 3 percent of the waste stream from residential areas.

4 CONSTRUCTION AND COMMISSIONING OF THE ACTIVITY

- 4.1 The licence must be made binding to the contractor as well as individual contractors and should be included in the tender documentation for the construction contract.
- 4.2 Construction and further development within the site must be carried out under the supervision of a registered professional engineer appointed by the Licence Holder and after approval by the HOD.
- 4.3 The licence holder must ensure that the liner for the cells consist of a 150 mm in situ base preparation, 150mm compacted clay layer, 150mm stone leachate drainage layer, a geotextile layer, a composite capping layer consisting of a 600mm compacted clayey layer (4 x 150mm layers) or a Geosynthetic Clay liner (GCL) (3800g/m²) and a 150mm of stone leachate collection layer.
- 4.4 The Licence holder must construct and maintain on a continuous basis a drainage system capable of diverting and draining from the Site all runoff water arising from land adjacent to the site, which could be expected as a result of the 1 in 50 years flood over a period of 24 hours.
- 4.5 The Licence holder must construct and maintain on a continuous basis a drainage and containment system capable of collecting and storing all runoff water arising from the site, which could be expected as a result of the of the 1 in 50 years flood over a period of 24 hours to prevent such runoff water from coming into contact with waste. The system must under the said rainfall event, maintain a freeboard of half a metre.



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the disposal site.

- 4.8 The Site must be constructed in accordance with recognised civil engineering practice to ensure that it remains stable (slope of 1:3).
- 4.9 Should any archaeological artefacts be exposed during excavation, the construction and/or operation in the vicinity of the finding must be stopped. Under no circumstances shall any artefacts be destroyed. Such an archaeological site must be marked and fenced off, and South African Heritage Resource Agency must be contacted within 48 hours.
- 4.10 All provisions of the Occupational Health and Safety Act, 85 of 1993 and any other applicable legislation must be adhered to by the holder of this licence.

5 GENERAL OPERATION AND IMPACT MANAGEMENT

5.1 IMPACT MANAGEMENT

- 5.1.1 Licence Holder must ensure that litter and mud arising from the activities must be cleared from affected areas outside the site as soon as practicable and wind-blown waste and litter must be picked up and removed from fences at all times to prevent pollution or nuisance.
- 5.1.2 Licence Holder must ensure that emissions from the activities are free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Department and interested and affected parties.
- 5.1.3 Licence Holder must ensure that all liquid wastes, whose emission to water or land could cause pollution, are provided with secondary containment and/or diverted to sewer only after receiving written approval from the relevant Municipality.
- 5.1.4 Waste disposed on the site may be reclaimed at a designated area under roofed area provided the reclamation activity does not add any negative impact on the environment and that relevant safety precautions in terms of the Occupational Health and Safety Act, 85 of 1993 and its regulations as amended are adhered to.
- 5.1.5 Licence Holder must ensure that emissions from the activities are free from noise at levels likely to cause annoyance, harm or disturb the peace of interested and affected parties.
- 5.1.6 Waste deposited on site must not be allowed to burn and suitable measures must be implemented to prevent fires on the site or extinguish fires which may occur.



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- 5.1.9 Any complaint from the public during the construction and operation of this waste disposal facility must be attended to by the holder of this licence as soon as possible to the satisfaction of parties concerned.
- 5.1.10 Specific area must be demarcated for fuelling and workshop services and such area must be bunded to reduce the possibility of soil and water contamination.
- 5.1.11 Amongst others, the following activities are not allowed on the working face the disposal site:
- 5.1.11.1 Servicing and washing of equipments
 - 5.1.11.2 Eating
 - 5.1.11.3 Salvaging
- 5.2 OPERATION
- 5.2.1 Licence Holder must ensure that records in terms of volume/weight, source and nature of all wastes received; reclaimed and landfilled are maintained and reported as per Annexure V hereafter on annual basis.
- 5.2.2 Waste that is not permissible under condition 3.1 above must be dealt with according to relevant legislation or the Department's policies and practices.
- 5.2.3 Waste disposed off on the site must be compacted and covered on a daily basis with a minimum of 150 millimetres of soil or other material approved by the HOD.
- 5.2.4 Licence Holder must ensure that the site is operated in such a manner that nuisance conditions or health hazards, or the potential creation of nuisance conditions or health hazards are prevented.
- 5.2.5 Sixteen point Material Safety Data sheet (MSDSs) must be available on site for all chemicals and hazardous substances stored or used on-site.

6 MONITORING

6.1 MONITORING METHODS AND PARAMETERS

- 6.1.1 The Licence Holder must carry out all tests required in terms of this Licence in accordance with methods prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).



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(e) Landfill site stability monitoring.

6.2 WATER MONITORING

6.2.1 The licence holder must establish and maintain a groundwater monitoring network for the site within 6 months of the date of this licence consisting of four (4) boreholes (two upstream and two downstream) to the satisfaction of the HOD and the Chief Director; RPW, so that unobstructed sampling, as required in terms of this licence, can be undertaken. Both upstream and downstream boreholes must monitor the same aquifer and must be hydraulically linked through pumping test results.

6.2.2 The licence holder must report any deviation to the borehole network mentioned in condition 6.2.1 above

6.2.3 Monitoring boreholes must be clearly marked and numbered and must be equipped with lockable caps. The DWA reserves the right to take water samples at any time and to analyse these samples, or to have them taken and analysed.

6.2.4 Groundwater monitoring by the Licence holder, in accordance with conditions 6.4.1, must continue and be maintained for a period of 30 years after closure, or for such a period and/or frequency as approved by the Chief Director.

6.3 BACKGROUND MONITORING

6.3.1 Samples from the borehole as required in condition 6.2.1 above, where the groundwater in the borehole is at an expected higher hydraulic pressure level as the hydraulic pressure level of the groundwater under the site, must be considered as background monitoring and tested annually for the water quality variables listed in Annexure III and Annexure IV.

6.4 DETECTION MONITORING

6.4.1 Monitoring must be conducted bi-annually at the downstream borehole for the water quality variables listed in Annexure IV.

6.5 INVESTIGATIVE MONITORING

6.5.1 If, in the opinion of the HOD, a water quality variable listed under the detection monitoring programme, as referred to in condition 6.4, shows an increasing trend, the Licence holder must initiate a monthly monitoring programme for the water quality variables listed in Annexure III.



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must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables, at those monitoring points and such frequency as may be specified by Chief Director.

7.3 Investigations carried out in terms of conditions 7.1 and 7.2 above must include the monitoring of the relevant environmental pollution, nuisance and health risk variables, at those monitoring points and such frequency to be determined in consultation with the HOD.

7.4 Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the Licence holder must submit mitigation measures to the satisfaction of the HOD.

8 AUDITING

8.1 INTERNAL AUDITS

8.1.1 Internal audits must be conducted quarterly by the licence holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 8.2.1.

8.2 EXTERNAL AUDITS

8.2.1 Licence Holder must appoint an independent external auditor to audit the site biennially and this auditor must compile an audit report documenting the findings of his/her audit, which must be submitted by the licence holder according to condition 9.2.2.

8.2.2 The audit report must

- a) specifically state whether conditions of this licence are adhered to.
- b) include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment.
- c) Specify target dates for the implementation of the recommendations by the licence holder to achieve compliance.
- d) contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the licence holder and whether corrective action taken for the previous audit non conformities was adequate.



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- 8.3.2 The licence holder must make any records or documentation available to the HOD upon request, as well as any other information he/she may require.
- 8.3.3 The findings of these audits or inspections must be made available to the licence holder within 30 days of the end of the audit or inspection. Information from the audits must be treated in accordance with the Promotion of Access to Information Act, 2000 (Act 2 of 2000).

9 RECORDS

- 9.1 The licence holder must keep records and update all the information referred to in Annexure V and submit this information to the HOD on an annual basis.
- 9.2 All records required or resulting from activities required by this licence must:
- be legible;
 - be made as soon as reasonably practicable and should form part of the external audit report;
 - if amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable and
 - be retained in accordance with a documented procedures which is approved by the Department.
- 9.3 Records demonstrating compliance with condition 2.1.1 must be maintained and made available to the HOD upon written request within a specified time.
- 9.4 The licence holder must record all borehole data and chemical analyses in the form attached as Annexure VI.

10 REPORTING

- 10.1 The licence holder must, within 24 hours notify the HOD of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.
- 10.2 The licence holder must, within 14 days, or a shorter period of time, if specified by the HOD from the occurrence or detection of any incident referred to in condition 10.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Chief Director : RPW and/or the HOD of measures taken to –



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risk of the Licence Holder.

- 10.4 The licence holder must keep an incident and complaints register, which must be attached to the External audit report.
- 10.5 The Department must be notified without delay in the case of the following:
- a) any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
 - b) the breach of this licence; and
 - c) any significant adverse environmental and health effects.
- 10.6 Prior written notification must be given to the HOD of the following events and in the specified timescales.
- a) as soon as practicable prior to the permanent cessation of any operational activities
 - b) full or partial cessation of the operational activities for a period likely to exceed 3 months
 - c) full or partial resumption of the operation of all or part of the activities after a cessation notified under (b) above
 - d) the professional engineer appointed by the licence holder in line with condition 4.1 must make a signed declaration that condition 4.1, above have been adhered to.
- 10.7 The Department must be notified within 7 days of any changes to the management of the site including the name of the incoming person together with evidence that such person has the required technical competence.
- 10.8 The Department must be notified within 14 days of the following changes:
- a) Licence holder's trading name, registered name or registered office address;
 - b) Particulars of the licence holder's ultimate holding company (including details of an ultimate holding where a licence holder has become a subsidiary);
 - c) steps taken with a view to the licence holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 10.9 Each external audit report referred to in condition 8.2.2 above must be submitted to the HoD within 30 days from the date on which the external auditor finalised the audit.



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environment, after operations on the site have ceased.

12. LEASING AND ALIENATION OF THE SITE

- 12.1 Should the licence holder want to alienate or lease the site, he/she must notify the HoD in writing of such an intention at least 120 days prior to the said transaction. Should the approval be granted, the subsequent licence holder shall remain liable to compliance with all licence conditions.

13. TRANSFER OF WASTE MANAGEMENT LICENCE

- 13.1 Should the licence holder want to transfer holder-ship of this, he/she must apply in terms of Sec 52 of the NEMWA, Act 2008 (59 of 2008).
- 13.2 Any subsequent licence holder shall be bound by the conditions of this licence.

14. GENERAL

- 14.1 The construction of the licensed activity may not commence within thirty (30) days of the date of signature of this licence.
- 14.2 Should you be notified by the Member of Executive Council (MEC) of a suspension of the licence pending any appeals decision, you may not commence with the activities licensed by the MEC in writing.
- 14.3 After an appeal period has expired and no good cause to extend the appeal period has been submitted, the activity may commence provided a notice has been submitted to the Department. The notice must include a date on which it is anticipated that the activity will commence.
- 14.4 The activity must commence within a period of two (2) years from the date of issue. If commencement of the activity does not occur within that period, the licence lapses and a new application for a licence must be made in order for the activity to be undertaken.
- 14.5 If the Licence Holder anticipates that commencement of the activity would not occur within two (2) year period, he / she **must** apply and **show good cause** for an extension of the license six (6) months prior to its expiry date.
- 14.6 This licence shall not be transferable unless such transfer is subject to condition 12.1



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- 14.9 Non-compliance with a condition of this license may result in criminal prosecution or other actions provided for in Section 67(1) of the National Environmental Management: Waste Act, 2008.
- 14.10 Any committees appointed in terms of the application or any other public authority or organization shall not be held responsible for any damages or losses suffered by the Licence Holder or his/her successor in title in any instance where construction or operation are to be temporarily or permanently stopped for reasons of non-compliance.
- 14.11 In terms of section 28 and 30 of the National Environmental Management Act No. 107 of 1998, and section 19 and 20 of the National Water Act No. 36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understand the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about environmental risks of their work and training them to operate in an environmental acceptable manner.
- 14.12 The licence holder must apply for a licence for the decommissioning of the existing waste management facility within 6 months of the date of this licence.
- 14.13 This licence is valid for a period of twenty (20) years and the licence holder must initiate a Licence review process 10 years from the date of issue. Based on the results of the review, compliance to licence conditions or recommendations from audit reports and or changing legislation, the licence could be amended or withdrawn or validity thereof extended.

15 APPEAL OF LICENCE

- 15.1 The licence holder must notify every registered interested and affected party, in writing and within five (5) days, of receiving the Department's decision.
- 15.2 The notification referred to in 14.1. must –
- 15.2.1 Specify the date on which the licence was issued;
- 15.2.2 Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of the GN No. R 385 of 21 April 2006 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1).



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J. Yawitch

Ms Joanne Yawitch
DEPUTY DIRECTOR-GENERAL

DATE: 8/03/2010



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APPLICANT	INTERESTED AND AFFECTED PARTIES (IAPs)
1. Receive a notification of a Waste Management Licence from the relevant Competent Authority	1. Receive a notification of a Waste Management Licence from Applicant/Consultant
2. Within 10 days of receipt of notification, notify the relevant Competent Authority and all IAPs of intention to appeal	2. Within 10 days of receipt of notification, notify the relevant Competent Authority of intention to appeal
3. Notification served by the Applicant must include: 3.1. A copy of the notice of intention to appeal; and 3.2. A notice indicating where and for what period the appeal submission will be available for inspection by all IAPs	3. Appellant must serve on the Applicant 3.1. A copy of the notice of intention to appeal 3.2. A notice indicating where and for what period the appeal submission will be available for inspection by the applicant
4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal	4. The appeal must be submitted to the relevant Competent Authority or delegated organ of State within 30 days of lodging of the notice of intention to appeal
5. A person or organ of state that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of state within 30 days from the date that the appeal submission was made available for inspection by the appellant	5. An Applicant that receives notice of an appeal may submit a responding statement to the relevant Competent Authority or delegated organ of State within 30 days from the date the appeal submission was made available for inspection by the appellant

NOTES:

1. An appeal against a decision must be lodged with:-

- a) the MEC if the decision was issued by the Head of Department (or another official) acting in his/her capacity as the delegated Competent Authority;
- b) the delegated organ of state where relevant.

2. An appeal must be:-

- a) on an official form obtainable or published by the relevant department;
- b) accompanied by:
 - a statement setting out the grounds of appeal;
 - supporting documentation which is referred to in the appeal and is not available to the relevant Competent Authority;
 - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62;
 - the prescribed appeal fee, if any.



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28 of 2002) and the Electricity Act, 1987 (Act 41 of 1987), Nuclear Energy Act, 1999 (Act 46 of 1999), unless written permission has been obtained from the Director.

3. Waste which is defined, according to the Minimum Requirements, as an extreme hazard or Hazard Group 1 (HG1); high hazard or Hazard Group 2 (HG2); moderate hazard or Hazard Group 3 (HG3) and low hazard or Hazard Group 4 (HG4), unless an application for delisting has been successfully submitted to the Manager: Waste Discharge and Disposal through the Regional Director and written approval was obtained from the Manager: Waste Discharge and Disposal for the disposal of this waste on the Site.
4. Flammable wastes, with a closed cup flash point less than 61°C.
5. Corrosive substances, as defined and described in the Minimum Requirements as Class 8 (1998 edition: page 6-8, Diagram III).
6. Oxidising substances and organic peroxides, as defined and described in the Minimum Requirements as Class 5 (1998 edition: page 6-8, Diagram III).
7. Any waste with a substance which is a Group A and/or Group B carcinogen/mutagen. Group A carcinogens/mutagens have been proven in humans, both clinical and epidemiological. Group B carcinogens/mutagens have been proven without doubt in laboratory animals.
8. Any waste with a substance at a concentration greater than 1% where the substance is a Group C and/or Group D carcinogen/mutagen. Group C carcinogens/mutagens have shown limited evidence in animals. Group D carcinogen/mutagen - the available data is inadequate and doubtful.
10. Any infectious waste which is generated during the diagnosis, treatment or immunisation of humans or animals; in the research pertaining to this; in the manufacturing or testing of biological agents including blood, blood products and contaminated blood products, cultures, pathological wastes, sharps, human and animal anatomical wastes and isolation wastes that contain infectious substances.
11. All materials which fall in Class 1 (explosives), Class 2 (compressed gases) and Class 7 (radioactive materials), as defined and described in the Minimum Requirements.
12. Any waste with a pH less than 6 or greater than 12.
13. Any waste which is difficult to analyse and classify.
14. Any complexes of heavy metal cations, paint and paint sludges, or laboratory chemicals.



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Chromium (hexavalent) (Cr ⁶⁺)	Magnesium (Mg)
Chromium (Total) (Cr)	Cadmium (Cd)
Chemical oxygen demand (COD)	Chloride (Cl)
Cyanide (CN)	Fluoride (F)
Mercury (Hg)	pH
Lead (Pb)	Sodium (Na)
Nitrate (as N) (NO ₃ -N)	Electrical conductivity (EC)
Phenolic compounds (Phen)	Sulphate (SO ₄)
Potassium (K)	
Total dissolved solids (TDS)	



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Alkalinity (P.AIk)
Chemical oxygen demand (COD)
pH
Total dissolved solids (TDS)
Chlorides (Cl)
Nitrate (NO₃-N)
Potassium (K)

(b) Annually for:

Electrical conductivity (EC)
Calcium (Ca)
Magnesium (Mg)
Sodium (Na)
Sulphate (SO₄)
Fluoride (F)



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1. Registered owner(s) of property on which disposal site is situated:

Name	Telephone	
Postal Address	Fax	
	Postal Code	

2. Operator in control of disposal site:

Name	Telephone	
Identity number	After hours	
Educational Qualifications (*)		

3. Latest estimated lifetime of the disposal site: _____ yr.

4. Indicate the type of waste and approximate quantities of waste disposed of during the year:

Type of waste	Quantity (m ³ annum ⁻¹)	Compacted (C)	Uncompacted (U)
Non-hazardous waste			
Household			
Garden refuse			
Building rubble			
Industrial (Specify Source)			
TOTAL			

5. Indicate the applicable waste types and quantities salvaged during the year (*)

Salvaging undertaken?	Yes	
Type	(Collector's Name & final destination of Waste)	Quantity (m ³)
Paper/wood fibre		
Plastics		
Glass		
Rubber		
Textiles		
Iron		
Other (Specify)		
Other (Specify)		



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Name: _____

Capacity: _____

Place: _____

Date _____

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Sampling Time			Pump
Time after start of pump:	h	min	Depth of sample M
Date of analysis (y-m-d)			Laboratory

General chemistry

Constituent	Unit	Required standard	Value	Constituent	Unit	Required standard	Value
pH	(-log[H ⁺])			As (III)	(mg/l)		
EC	(mS/m)			B	(mg/l)		
TDS	(mg/l)			Cd	(mg/l)		
Ca	(mg/l)			Free CN	(mg/l)		
Mg	(mg/l)			Cr (Total)	(mg/l)		
Na	(mg/l)			Cr (VI)I	(mg/l)		
K	(mg/l)			Cu	(mg/l)		
Alkalinity	(mg CaCO ₃ /l)			Mn	(mg/l)		
Cl	(mg/l)			Pb	(mg/l)		
SO ₄	(mg/l)			Hg	(mg/l)		
NO ₃ -N	(mg/l)			S-	(mg/l)		
F	(mg/l)						
COD	(mg/l)						
NH ₄ -N	(mg/l)						
Phenol	(mg/l)						
PO ₄	(mg/l)						
TOX	(µg/l)						
TOC	(mg/l)						
Ba	(mg/l)						

Workflow Details



55418

<input type="checkbox"/> Step Details...					
Step Name	Performer	Task Disposition	Due Date	Done Date	Comments
Step 05 - Director	Kelello Ntoampe	Forward to CD	12 February 2010 02:33 PM	10 February 2010 04:17 PM	
Step 06 - Chief Director	Nolwazi Cobbinah	Recommended	12 February 2010 04:17 PM	05 March 2010 10:48 AM	
Step 07 - Deputy Director-General	Joanne Yawitch	Approved	09 March 2010 10:48 AM	08 March 2010 02:30 PM	
Step 07C - Print Documents for DDG	WF: EQ&P Print Group		10 March 2010 02:30 PM		
Step 13 - Workflow Complete	WF: D:AUTH		12 March 2010 02:30 PM		